



# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD MULLIONS

*(Includes Standard, High Performance and Impact Zone 3)*

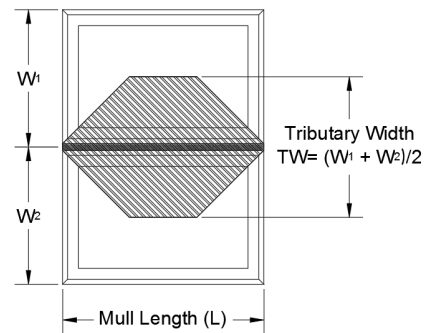
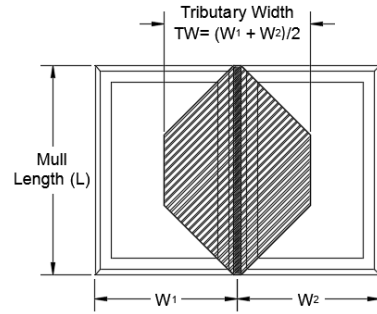
When mulling window units in the various combinations, it is important the entire mullied combination comply with local wind load requirements. To ensure the mullied combination complies with local codes and requirements, the wind load of the entire mullied combination must be determined. The following three steps will assist in determining the structural wind load of the mullied combination:

1. Determine the local building code PSF requirements
2. Choose the individual units needed to meet the local building code PSF and Performance Grade (PG) requirements.  
*Individual unit performance data can be found at [www.windsorwindows.com](http://www.windsorwindows.com)*
3. Choose the mulling combination and mulling type that meets the local building code PSF requirement from the following combination mulling charts.
4. Additional fasteners at the mullion ends will be required during the installation. See [www.windsorwindows.com](http://www.windsorwindows.com) for further installation details when installing mullied products.

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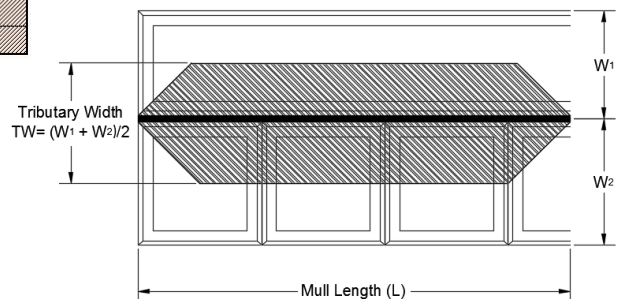
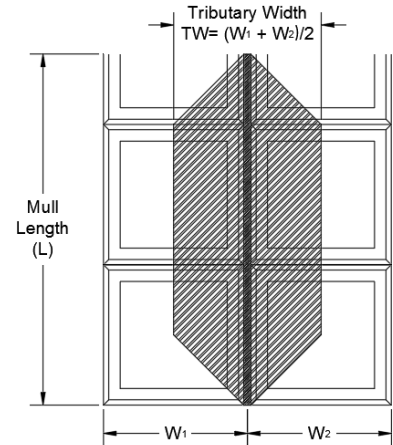
(Includes Standard, High Performance and Impact Zone 3)

| Zero Mull           |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 70 | 70 | 70 | 70 |
|                     | 66  | 75                        | 75 | 75 | 70 | 64 | 60 | 58 | 53 | 53 | 53 | 53 |
|                     | 72  | 75                        | 75 | 64 | 57 | 52 | 49 | 46 | 41 | 41 | 41 | 41 |
|                     | 78  | 75                        | 64 | 54 | 48 | 43 | 40 | 38 | 33 | 32 | 32 | 32 |
|                     | 84  | 67                        | 54 | 46 | 41 | 37 | 34 | 31 | 27 | 26 | 26 | 25 |
|                     | 90  | 58                        | 47 | 40 | 35 | 31 | 29 | 27 | 23 | 22 | 21 | 21 |
|                     | 96  | 51                        | 41 | 35 | 30 | 27 | 25 | 23 | 19 | 18 | 18 | 17 |
|                     | 102 | 45                        | 36 | 31 | 27 | 24 | 22 | 20 | 17 | 16 | 16 | 15 |
| 108                 | 38  | 31                        | 26 | 23 | 20 | 18 | 17 | 15 |    |    |    |    |
| 114                 | 32  | 26                        | 22 | 19 | 17 | 16 |    |    |    |    |    |    |
| 120                 | 28  | 22                        | 19 | 16 | 15 |    |    |    |    |    |    |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| Zero Mull           |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 70 | 65 |    |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 73 | 67 | 61 | 56 | 52 |    |
|                     | 54  | 75                        | 75 | 75 | 75 | 72 | 64 | 58 | 53 | 48 | 44 | 41 |
|                     | 60  | 75                        | 75 | 75 | 67 | 59 | 52 | 47 | 43 | 39 | 36 | 33 |
|                     | 66  | 75                        | 75 | 65 | 55 | 48 | 43 | 39 | 35 | 32 | 30 | 27 |
|                     | 72  | 75                        | 65 | 54 | 46 | 41 | 36 | 32 | 29 | 27 | 25 | 23 |
|                     | 78  | 69                        | 55 | 46 | 39 | 34 | 31 | 28 | 25 | 23 | 21 | 20 |
|                     | 84  | 60                        | 48 | 40 | 34 | 30 | 26 | 24 | 21 | 20 | 18 | 17 |
|                     | 90  | 52                        | 42 | 35 | 30 | 26 | 23 | 21 | 19 | 17 | 16 |    |
|                     | 96  | 46                        | 36 | 30 | 26 | 23 | 20 | 18 | 16 | 15 |    |    |
|                     | 102 | 41                        | 33 | 27 | 23 | 20 | 18 | 16 | 15 |    |    |    |
| 108                 | 36  | 29                        | 24 | 20 | 18 | 16 |    |    |    |    |    |    |
| 114                 | 32  | 26                        | 21 | 18 | 16 |    |    |    |    |    |    |    |
| 120                 | 29  | 23                        | 19 | 16 |    |    |    |    |    |    |    |    |



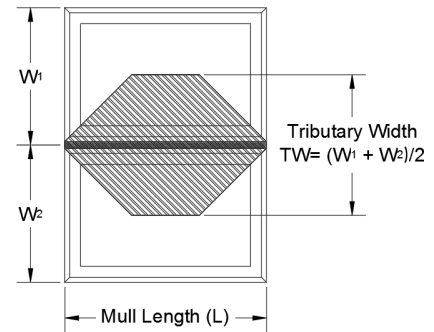
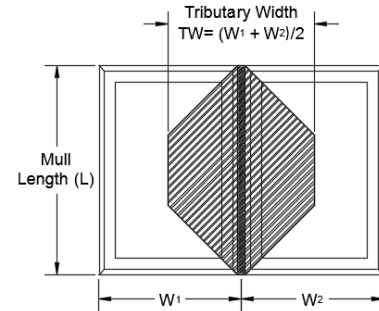
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# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD MULLIONS

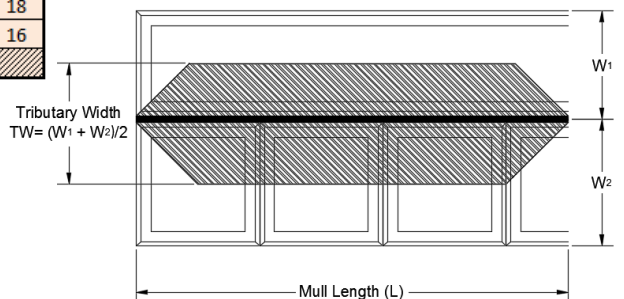
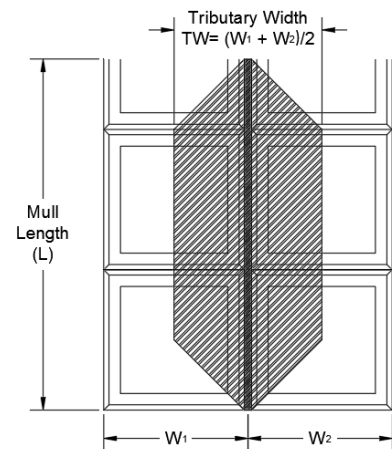
(Includes Standard, High Performance and Impact Zone 3)

| 1" Spread Mull One - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|--------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
|                          |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in)      | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 72  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 78  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 84  | 75                        | 75 | 75 | 75 | 75 | 73 | 69 | 66 | 64 | 62 | 62 |
|                          | 90  | 75                        | 75 | 75 | 71 | 63 | 58 | 54 | 51 | 49 | 48 | 47 |
|                          | 96  | 75                        | 75 | 66 | 57 | 51 | 47 | 44 | 41 | 39 | 38 | 37 |
|                          | 102 | 75                        | 66 | 56 | 49 | 44 | 40 | 37 | 34 | 33 | 31 | 30 |
|                          | 108 | 67                        | 54 | 45 | 40 | 35 | 32 | 29 | 27 | 26 | 25 | 24 |
| 114                      | 56  | 46                        | 38 | 33 | 30 | 27 | 25 | 23 | 22 | 20 | 20 |    |
| 120                      | 48  | 39                        | 33 | 28 | 25 | 23 | 21 | 19 | 18 | 17 | 16 |    |



- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 1" Spread Mull Two - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|--------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
|                          |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in)      | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                          | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 70 | 65 |
|                          | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 |
|                          | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 |
|                          | 60  | 75                        | 75 | 75 | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 |
|                          | 66  | 75                        | 75 | 75 | 75 | 73 | 64 | 58 | 53 | 48 | 44 | 41 |
|                          | 72  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 |
|                          | 78  | 75                        | 75 | 75 | 70 | 61 | 54 | 49 | 44 | 41 | 38 | 35 |
|                          | 84  | 75                        | 75 | 75 | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 |
|                          | 90  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 |
|                          | 96  | 75                        | 74 | 62 | 53 | 46 | 41 | 37 | 34 | 31 | 28 | 26 |
|                          | 102 | 75                        | 64 | 53 | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 23 |
|                          | 108 | 65                        | 52 | 43 | 37 | 32 | 29 | 26 | 23 | 21 | 20 | 18 |
| 114                      | 55  | 44                        | 37 | 31 | 27 | 24 | 22 | 20 | 18 | 17 | 16 |    |
| 120                      | 47  | 38                        | 31 | 27 | 24 | 21 | 19 | 17 | 16 | 15 | 14 |    |



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(Includes Standard, High Performance and Impact Zone 3)

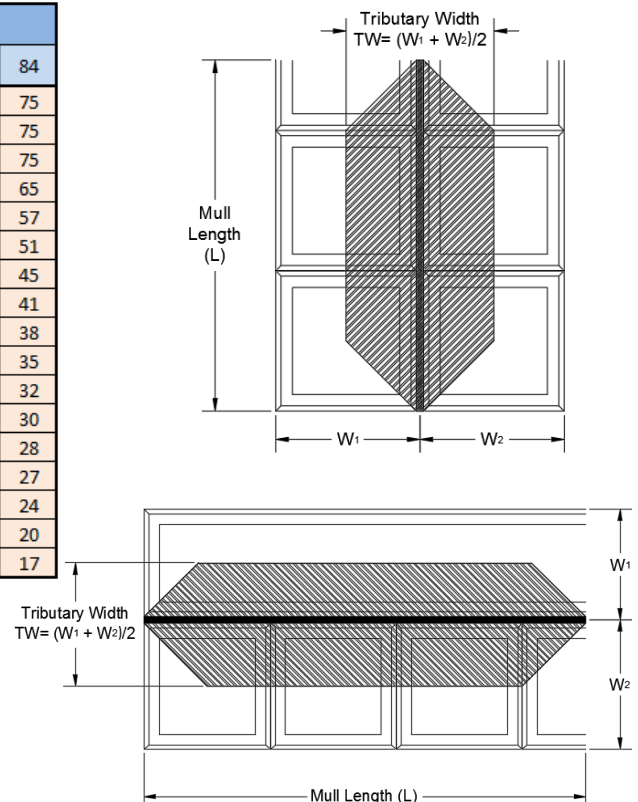
| 2" Spread Mull      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 72  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 78  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 84  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 68 | 66 | 65 | 65 |
|                     | 90  | 75                        | 75 | 75 | 75 | 73 | 67 | 64 | 61 | 59 | 58 | 57 |
|                     | 96  | 75                        | 75 | 75 | 73 | 66 | 61 | 56 | 53 | 51 | 49 | 48 |
|                     | 102 | 75                        | 75 | 72 | 63 | 56 | 51 | 48 | 45 | 42 | 41 | 40 |
| 108                 | 75  | 70                        | 59 | 51 | 46 | 41 | 38 | 36 | 34 | 32 | 31 |    |
| 114                 | 73  | 59                        | 50 | 43 | 38 | 35 | 32 | 30 | 28 | 27 | 25 |    |
| 120                 | 62  | 50                        | 42 | 37 | 33 | 29 | 27 | 25 | 23 | 22 | 21 |    |

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| 2" Spread Mull      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 70 | 65 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 |    |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 |
|                     | 66  | 75                        | 75 | 75 | 75 | 73 | 64 | 58 | 53 | 48 | 44 | 41 |
|                     | 72  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 |
|                     | 78  | 75                        | 75 | 75 | 70 | 61 | 54 | 49 | 44 | 41 | 38 | 35 |
|                     | 84  | 75                        | 75 | 75 | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 |
|                     | 90  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 |
|                     | 96  | 75                        | 75 | 66 | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 |
|                     | 102 | 75                        | 75 | 63 | 54 | 47 | 42 | 38 | 34 | 31 | 29 | 27 |
| 108                 | 75  | 67                        | 56 | 48 | 42 | 37 | 34 | 30 | 28 | 26 | 24 |    |
| 114                 | 72  | 57                        | 48 | 41 | 36 | 32 | 28 | 26 | 24 | 22 | 20 |    |
| 120                 | 61  | 49                        | 41 | 35 | 30 | 27 | 24 | 22 | 20 | 19 | 17 |    |

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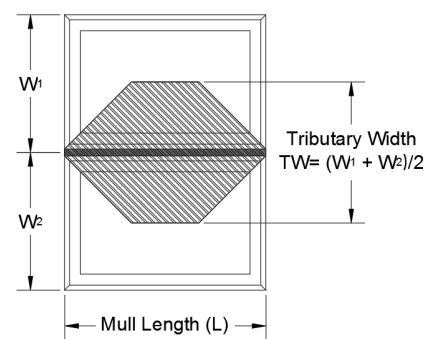
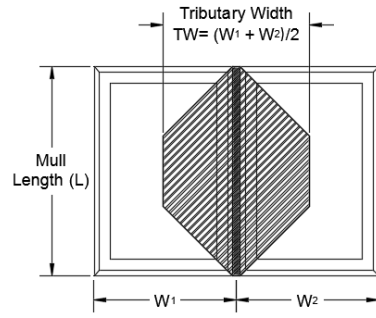




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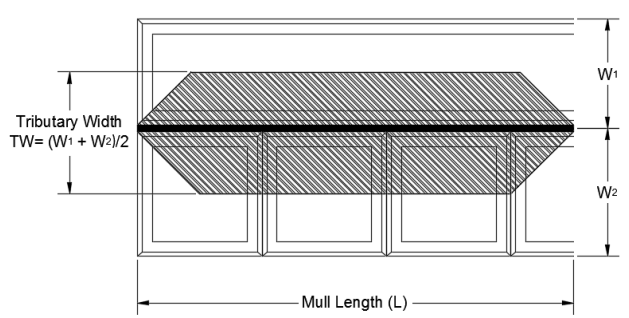
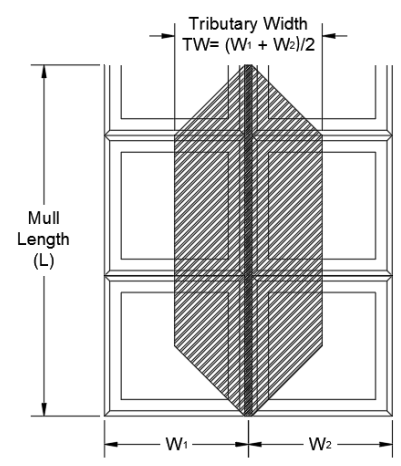
(Includes Standard, High Performance and Impact Zone 3)

| 4" Spread Mull      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| One - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 66  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 72  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 78  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 84  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 68 | 66 | 65 | 65 |
|                     | 90  | 75                        | 75 | 75 | 75 | 73 | 67 | 64 | 61 | 59 | 58 | 57 |
|                     | 96  | 75                        | 75 | 75 | 73 | 66 | 62 | 58 | 55 | 53 | 52 | 51 |
|                     | 102 | 75                        | 75 | 75 | 68 | 62 | 57 | 53 | 50 | 47 | 45 | 44 |
|                     | 108 | 75                        | 75 | 65 | 57 | 51 | 46 | 42 | 39 | 37 | 36 | 34 |
| 114                 | 75  | 65                        | 55 | 48 | 43 | 39 | 35 | 33 | 31 | 29 | 28 |    |
| 120                 | 69  | 56                        | 47 | 41 | 36 | 33 | 30 | 28 | 26 | 25 | 24 |    |



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- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 4" Spread Mull      |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|
| Two - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| L- Mull Length (in) | 24  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 30  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                     | 42  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 70 | 65 | 65 |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 73 | 66 | 61 | 57 |
|                     | 54  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 71 | 64 | 58 | 53 | 49 | 45 |
|                     | 66  | 75                        | 75 | 75 | 75 | 73 | 64 | 58 | 53 | 48 | 44 | 41 |
|                     | 72  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 |
|                     | 78  | 75                        | 75 | 75 | 70 | 61 | 54 | 49 | 44 | 41 | 38 | 35 |
|                     | 84  | 75                        | 75 | 75 | 65 | 57 | 51 | 45 | 41 | 38 | 35 | 32 |
|                     | 90  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 |
|                     | 96  | 75                        | 75 | 66 | 57 | 50 | 44 | 40 | 36 | 33 | 30 | 28 |
|                     | 102 | 75                        | 75 | 63 | 54 | 47 | 42 | 38 | 34 | 31 | 29 | 27 |
|                     | 108 | 75                        | 71 | 59 | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 |
| 114                 | 75  | 64                        | 53 | 45 | 40 | 35 | 32 | 29 | 26 | 24 | 22 |    |
| 120                 | 68  | 54                        | 45 | 39 | 34 | 30 | 27 | 24 | 22 | 21 | 19 |    |



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- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
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**WINDSOR**  
WINDOWS & DOORS  
A Woodgrain Millwork Company

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## FOR PINNACLE CLAD MULLIONS

(Includes Standard, High Performance and Impact Zone 3)

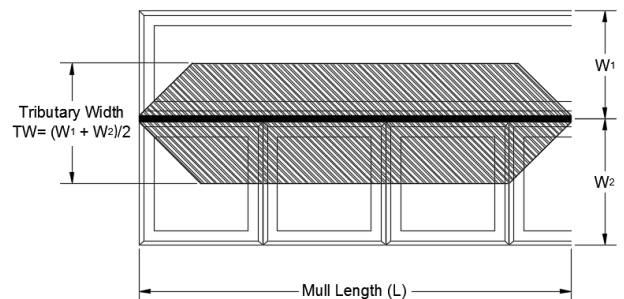
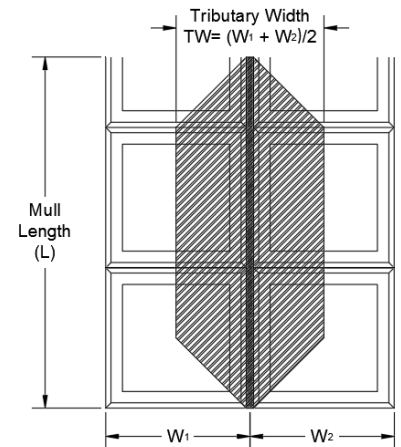
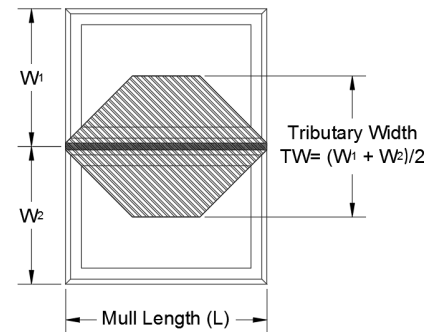
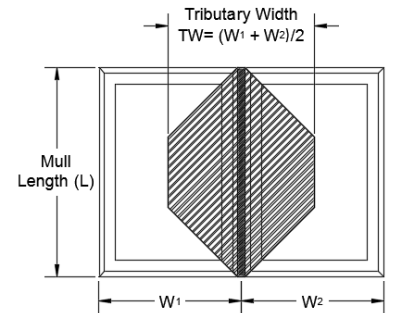
For reference only: Structural Steel to be provided by others

| 1/4" x 4" Steel One - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
|                           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| L- Mull Length (in)       | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                           | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                           | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                           | 72  | 75                        | 75 | 75 | 71 | 66 | 63 | 61 | 59 | 59 | 59 | 59 | 59 | 59 |
|                           | 84  | 75                        | 74 | 64 | 58 | 53 | 50 | 47 | 45 | 44 | 43 | 43 | 43 | 43 |
|                           | 96  | 75                        | 63 | 54 | 48 | 44 | 41 | 38 | 37 | 35 | 34 | 34 | 33 | 33 |
|                           | 108 | 66                        | 55 | 47 | 42 | 38 | 35 | 32 | 31 | 29 | 28 | 27 | 27 | 26 |
|                           | 120 | 59                        | 48 | 42 | 37 | 33 | 30 | 28 | 26 | 25 | 24 | 23 | 22 | 22 |
|                           | 132 | 53                        | 43 | 37 | 33 | 29 | 27 | 25 | 23 | 22 | 21 | 20 | 19 | 19 |
|                           | 144 | 48                        | 39 | 34 | 29 | 26 | 24 | 22 | 21 | 19 | 18 | 18 | 17 | 16 |
|                           | 156 | 43                        | 35 | 29 | 25 | 22 | 20 | 18 | 16 | 15 |    |    |    |    |
|                           | 168 | 34                        | 28 | 23 | 20 | 17 | 16 |    |    |    |    |    |    |    |
|                           | 180 | 28                        | 22 | 19 | 16 |    |    |    |    |    |    |    |    |    |
|                           | 192 | 23                        | 18 | 15 |    |    |    |    |    |    |    |    |    |    |
|                           | 204 | 19                        | 15 |    |    |    |    |    |    |    |    |    |    |    |
|                           | 216 | 16                        |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                       |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                       |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |

- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 1/4" x 4" Steel Two - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
|                           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| L- Mull Length (in)       | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 | 47 | 44 |
|                           | 48  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 |
|                           | 60  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 | 28 | 26 |
|                           | 72  | 75                        | 71 | 59 | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 |
|                           | 84  | 75                        | 61 | 51 | 43 | 38 | 34 | 30 | 27 | 25 | 23 | 21 | 20 | 19 |
|                           | 96  | 66                        | 53 | 44 | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 |
|                           | 108 | 59                        | 47 | 39 | 34 | 29 | 26 | 23 | 21 | 19 | 18 | 17 | 15 |    |
|                           | 120 | 53                        | 42 | 35 | 30 | 26 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |
|                           | 132 | 48                        | 38 | 32 | 27 | 24 | 21 | 19 | 17 | 16 |    |    |    |    |
|                           | 144 | 44                        | 35 | 29 | 25 | 22 | 19 | 17 | 16 |    |    |    |    |    |
|                           | 156 | 41                        | 32 | 27 | 23 | 20 | 18 | 16 |    |    |    |    |    |    |
|                           | 168 | 34                        | 28 | 23 | 20 | 17 | 15 |    |    |    |    |    |    |    |
|                           | 180 | 28                        | 22 | 18 | 16 |    |    |    |    |    |    |    |    |    |
|                           | 192 | 23                        | 18 | 15 |    |    |    |    |    |    |    |    |    |    |
|                           | 204 | 19                        | 15 |    |    |    |    |    |    |    |    |    |    |    |
|                           | 216 | 16                        |    |    |    |    |    |    |    |    |    |    |    |    |
| 228                       |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |
| 240                       |     |                           |    |    |    |    |    |    |    |    |    |    |    |    |

- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines





# STRUCTURAL DESIGN PRESSURE FOR PINNACLE CLAD MULLIONS

(Includes Standard, High Performance and Impact Zone 3)

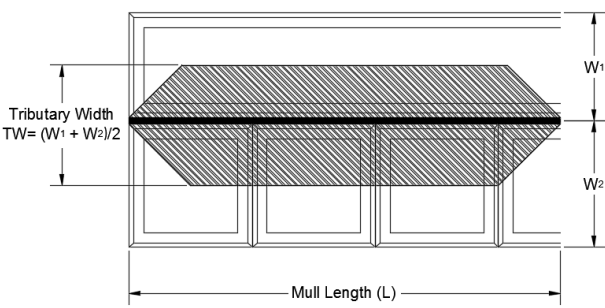
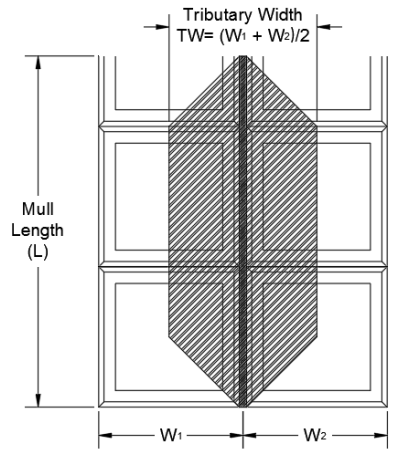
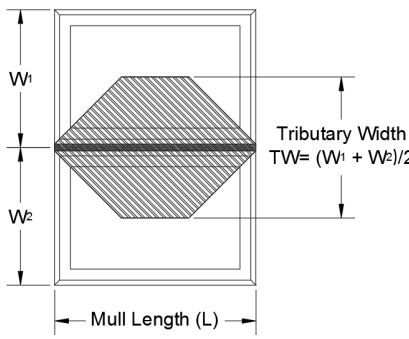
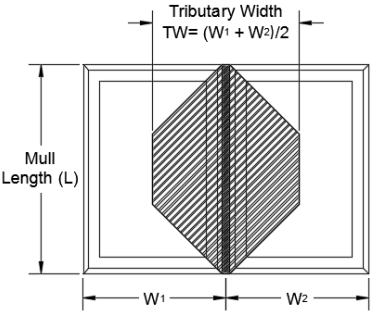
For reference only: Structural Steel to be provided by others

| 1/2" x 4" Steel<br>One - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
|                              |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| L- Mull Length (in)          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                              | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                              | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
|                              | 72  | 75                        | 75 | 75 | 71 | 66 | 63 | 61 | 59 | 59 | 59 | 59 | 59 | 59 |
|                              | 84  | 75                        | 74 | 64 | 58 | 53 | 50 | 47 | 45 | 44 | 43 | 43 | 43 | 43 |
|                              | 96  | 75                        | 63 | 54 | 48 | 44 | 41 | 38 | 37 | 35 | 34 | 34 | 33 | 33 |
|                              | 108 | 66                        | 55 | 47 | 42 | 38 | 35 | 32 | 31 | 29 | 28 | 27 | 27 | 26 |
|                              | 120 | 59                        | 48 | 42 | 37 | 33 | 30 | 28 | 26 | 25 | 24 | 23 | 22 | 22 |
|                              | 132 | 53                        | 43 | 37 | 33 | 29 | 27 | 25 | 23 | 22 | 21 | 20 | 19 | 19 |
|                              | 144 | 48                        | 39 | 34 | 29 | 26 | 24 | 22 | 21 | 19 | 18 | 18 | 17 | 16 |
|                              | 156 | 44                        | 36 | 31 | 27 | 24 | 22 | 20 | 19 | 17 | 16 | 16 | 15 |    |
|                              | 168 | 41                        | 33 | 28 | 25 | 22 | 20 | 18 | 17 | 16 | 15 |    |    |    |
|                              | 180 | 38                        | 31 | 26 | 23 | 20 | 18 | 17 | 15 |    |    |    |    |    |
|                              | 192 | 35                        | 29 | 24 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |
|                              | 204 | 32                        | 25 | 21 | 18 | 16 |    |    |    |    |    |    |    |    |
|                              | 216 | 27                        | 21 | 18 | 15 |    |    |    |    |    |    |    |    |    |
| 228                          | 22  | 18                        | 15 |    |    |    |    |    |    |    |    |    |    |    |
| 240                          | 19  | 15                        |    |    |    |    |    |    |    |    |    |    |    |    |

- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 1/2" x 4" Steel<br>Two - Way |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
|                              |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| L- Mull Length (in)          | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 | 47 | 44 |
|                              | 48  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 |
|                              | 60  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 | 28 | 26 |
|                              | 72  | 75                        | 71 | 59 | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 |
|                              | 84  | 75                        | 61 | 51 | 43 | 38 | 34 | 30 | 27 | 25 | 23 | 21 | 20 | 19 |
|                              | 96  | 66                        | 53 | 44 | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 |
|                              | 108 | 59                        | 47 | 39 | 34 | 29 | 26 | 23 | 21 | 19 | 18 | 17 | 15 |    |
|                              | 120 | 53                        | 42 | 35 | 30 | 26 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |
|                              | 132 | 48                        | 38 | 32 | 27 | 24 | 21 | 19 | 17 | 16 |    |    |    |    |
|                              | 144 | 44                        | 35 | 29 | 25 | 22 | 19 | 17 | 16 |    |    |    |    |    |
|                              | 156 | 41                        | 32 | 27 | 23 | 20 | 18 | 16 |    |    |    |    |    |    |
|                              | 168 | 38                        | 30 | 25 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |
|                              | 180 | 35                        | 28 | 23 | 20 | 17 | 15 |    |    |    |    |    |    |    |
|                              | 192 | 33                        | 26 | 22 | 19 | 16 |    |    |    |    |    |    |    |    |
|                              | 204 | 31                        | 25 | 21 | 18 | 15 |    |    |    |    |    |    |    |    |
|                              | 216 | 27                        | 21 | 18 | 15 |    |    |    |    |    |    |    |    |    |
| 228                          | 23  | 18                        | 15 |    |    |    |    |    |    |    |    |    |    |    |
| 240                          | 19  | 15                        |    |    |    |    |    |    |    |    |    |    |    |    |

- Values represent structural pressure only (PSF)
- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines





# STRUCTURAL DESIGN PRESSURE

## FOR PINNACLE CLAD MULLIONS

(Includes Standard, High Performance and Impact Zone 3)

For reference only: Structural Steel to be provided by others

| 3/4" x 4" Steel     |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |  |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|
| One - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |  |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                     | 48  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                     | 60  | 75                        | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |  |
|                     | 72  | 75                        | 75 | 75 | 71 | 66 | 63 | 61 | 59 | 59 | 59 | 59 | 59 | 59 |  |
|                     | 84  | 75                        | 74 | 64 | 58 | 53 | 50 | 47 | 45 | 44 | 43 | 43 | 43 | 43 |  |
|                     | 96  | 75                        | 63 | 54 | 48 | 44 | 41 | 38 | 37 | 35 | 34 | 34 | 33 | 33 |  |
|                     | 108 | 66                        | 55 | 47 | 42 | 38 | 35 | 32 | 31 | 29 | 28 | 27 | 27 | 26 |  |
|                     | 120 | 59                        | 48 | 42 | 37 | 33 | 30 | 28 | 26 | 25 | 24 | 23 | 22 | 22 |  |
|                     | 132 | 53                        | 43 | 37 | 33 | 29 | 27 | 25 | 23 | 22 | 21 | 20 | 19 | 19 |  |
|                     | 144 | 48                        | 39 | 34 | 29 | 26 | 24 | 22 | 21 | 19 | 18 | 18 | 17 | 16 |  |
|                     | 156 | 44                        | 36 | 31 | 27 | 24 | 22 | 20 | 19 | 17 | 16 | 16 | 15 |    |  |
|                     | 168 | 41                        | 33 | 28 | 25 | 22 | 20 | 18 | 17 | 16 | 15 |    |    |    |  |
|                     | 180 | 38                        | 31 | 26 | 23 | 20 | 18 | 17 | 15 |    |    |    |    |    |  |
|                     | 192 | 35                        | 29 | 24 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |  |
|                     | 204 | 33                        | 27 | 23 | 20 | 17 | 16 |    |    |    |    |    |    |    |  |
|                     | 216 | 31                        | 25 | 21 | 18 | 16 | 15 |    |    |    |    |    |    |    |  |
| 228                 | 29  | 24                        | 20 | 17 | 15 |    |    |    |    |    |    |    |    |    |  |
| 240                 | 27  | 22                        | 18 | 15 |    |    |    |    |    |    |    |    |    |    |  |

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- Overall structural performance of combination is determined by the lowest structural performance of any individual unit or mullion in the combination
- Products must be installed and anchored properly in accordance with Windsor Windows Installation Guidelines

| 3/4" x 4" Steel     |     | TW - Tributary Width (in) |    |    |    |    |    |    |    |    |    |    |    |    |  |
|---------------------|-----|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Two - Way           |     | 24                        | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |  |
| L- Mull Length (in) | 36  | 75                        | 75 | 75 | 75 | 75 | 75 | 71 | 64 | 59 | 54 | 51 | 47 | 44 |  |
|                     | 48  | 75                        | 75 | 75 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 35 | 33 |  |
|                     | 60  | 75                        | 75 | 71 | 61 | 53 | 47 | 42 | 38 | 35 | 32 | 30 | 28 | 26 |  |
|                     | 72  | 75                        | 71 | 59 | 51 | 44 | 39 | 35 | 32 | 29 | 27 | 25 | 23 | 22 |  |
|                     | 84  | 75                        | 61 | 51 | 43 | 38 | 34 | 30 | 27 | 25 | 23 | 21 | 20 | 19 |  |
|                     | 96  | 66                        | 53 | 44 | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 19 | 17 | 16 |  |
|                     | 108 | 59                        | 47 | 39 | 34 | 29 | 26 | 23 | 21 | 19 | 18 | 17 | 15 |    |  |
|                     | 120 | 53                        | 42 | 35 | 30 | 26 | 23 | 21 | 19 | 17 | 16 | 15 |    |    |  |
|                     | 132 | 48                        | 38 | 32 | 27 | 24 | 21 | 19 | 17 | 16 |    |    |    |    |  |
|                     | 144 | 44                        | 35 | 29 | 25 | 22 | 19 | 17 | 16 |    |    |    |    |    |  |
|                     | 156 | 41                        | 32 | 27 | 23 | 20 | 18 | 16 |    |    |    |    |    |    |  |
|                     | 168 | 38                        | 30 | 25 | 21 | 19 | 17 | 15 |    |    |    |    |    |    |  |
|                     | 180 | 35                        | 28 | 23 | 20 | 17 | 15 |    |    |    |    |    |    |    |  |
|                     | 192 | 33                        | 26 | 22 | 19 | 16 |    |    |    |    |    |    |    |    |  |
|                     | 204 | 31                        | 25 | 21 | 18 | 15 |    |    |    |    |    |    |    |    |  |
|                     | 216 | 29                        | 23 | 19 | 17 |    |    |    |    |    |    |    |    |    |  |
| 228                 | 28  | 22                        | 18 | 16 |    |    |    |    |    |    |    |    |    |    |  |
| 240                 | 26  | 21                        | 17 | 15 |    |    |    |    |    |    |    |    |    |    |  |

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